

PROBLEM SUMMARY

Sample Rating Trend



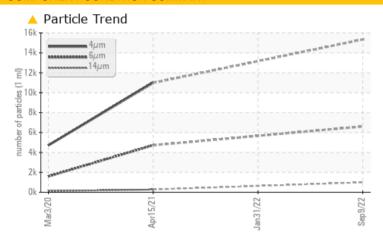
Machine Id **6383655 (S/N 1165)**

Component

Compressor

KAESER SIGMA (OEM) S-460 (--- GAL)

COMPONENT CONDITION SUMMARY



RECOMMENDATION

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

PROBLEMATIC TEST RESULTS							
Sample Status			ABNORMAL	ABNORMAL	ABNORMAL		
Particles >6μm	ASTM D7647	>1300	△ 6607		▲ 4722		
Particles >14μm	ASTM D7647	>80	996		△ 273		
Particles >21µm	ASTM D7647	>20	188		<u></u> 56		
Particles >38µm	ASTM D7647	>4	<u>^</u> 8		2		
Oil Cleanliness	ISO 4406 (c)	>/17/13	<u> 21/20/17</u>		▲ 19/15		

Customer Id: SMAFOR Sample No.: KCP49390 Lab Number: 05648344 Test Package: IND 2



To manage this report scan the QR code

To discuss the diagnosis or test data: Doug Bogart +1 (800)237-1369 x4016 dougb@wearcheckusa.com

To change component or sample information: Customer Service +1 1-800-237-1369 customerservice@wearcheck.com

RECOMMENDED ACTIONS

Action	Status	Date	Done By	Description
Change Fluid			?	Oil and filter change at the time of sampling has been noted.
Change Filter			?	Oil and filter change at the time of sampling has been noted.

HISTORICAL DIAGNOSIS

31 Jan 2022 Diag: Don Baldridge

VIS DEBRIS



No corrective action is recommended at this time. The filter change at the time of sampling has been noted. Resample at the next service interval to monitor. We were unable to perform a particle count due to a high concentration of particles present in this sample. All component wear rates are normal. Moderate concentration of visible dirt/debris present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



15 Apr 2021 Diag: Doug Bogart

ISO



No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a high amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.



03 Mar 2020 Diag: Jonathan Hester

ISO



Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor. All component wear rates are normal. There is a moderate amount of particulates present in the oil. The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.





OIL ANALYSIS REPORT

Sample Rating Trend



ISO

6383655 (S/N 1165)

Component

Compressor

KAESER SIGMA (OEM) S-460 (--- GAL)

DIAGNOSIS

Recommendation

No corrective action is recommended at this time. Oil and filter change at the time of sampling has been noted. Resample at the next service interval to monitor.

Wear

All component wear rates are normal.

Contamination

There is a high amount of particulates present in the oil.

Fluid Condition

The AN level is acceptable for this fluid. The condition of the oil is suitable for further service.

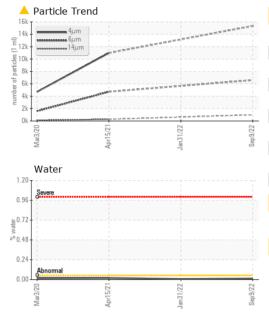
		Mar202	0 Apr2021	921 Jan2022 Sep2022		
SAMPLE INFORM	MATION	method	limit/base	current	history 1	history 2
Sample Number				KCP49390	KCP48692	KCP27683
Sample Date				09 Sep 2022	31 Jan 2022	15 Apr 2021
Machine Age	hrs			17030	13972	9456
Oil Age	hrs			3058	4516	4666
Oil Changed				Changed	Not Changd	Changed
Sample Status				ABNORMAL	ABNORMAL	ABNORMAL
WEAR METALS		method	limit/base	current	history 1	history 2
Iron	ppm	ASTM D5185m	>50	<1	3	2
Chromium	ppm	ASTM D5185m	>10	0	0	0
Nickel	ppm	ASTM D5185m	>3	0	0	<1
Titanium	ppm	ASTM D5185m	>3	0	0	0
Silver	ppm	ASTM D5185m	>2	0	<1	<1
Aluminum	ppm	ASTM D5185m	>10	<1	<1	<1
Lead	ppm	ASTM D5185m	>10	0	0	<1
Copper	ppm	ASTM D5185m	>50	22	16	12
Tin	ppm	ASTM D5185m	>10	0	0	0
Antimony	ppm	ASTM D5185m			0	2
Vanadium	ppm	ASTM D5185m		0	0	0
Cadmium	ppm	ASTM D5185m		0	0	<1
ADDITIVES		method	limit/base	current	history 1	history 2
Boron	ppm	ASTM D5185m		0	0	<1
Barium	ppm	ASTM D5185m	90	0	0	0
Molybdenum	ppm	ASTM D5185m		0	0	0
Manganese	ppm	ASTM D5185m		<1	<1	<1
Magnesium	ppm	ASTM D5185m	90	12	27	26
Calcium	ppm	ASTM D5185m	2	0	<1	0
Phosphorus	ppm	ASTM D5185m		9	10	0
Zinc	ppm	ASTM D5185m		23	27	26
Sulfur	ppm	ASTM D5185m		24439	17068	16103
CONTAMINANTS	;	method	limit/base	current	history 1	history 2
Silicon	ppm	ASTM D5185m	>25	1	<1	0
Sodium	ppm	ASTM D5185m		4	9	12
Potassium	ppm	ASTM D5185m	>20	<1	0	13
Water	%	ASTM D6304	>0.05	0.012	0.007	0.020
ppm Water	ppm	ASTM D6304	>500	128.6	70.5	204.0
FLUID CLEANLIN	IESS	method	limit/base	current	history 1	history 2
Particles >4μm		ASTM D7647		15343		10990
Particles >6µm		ASTM D7647	>1300	△ 6607		▲ 4722
Particles >14μm		ASTM D7647	>80	996		△ 273
Particles >21µm		ASTM D7647	>20	<u> </u>		▲ 56
Particles >38μm		ASTM D7647	>4	<u>^</u> 8		2
Particles >71μm		ASTM D7647	>3	1		0
Oil Cleanliness		ISO 4406 (c)	>/17/13	<u>21/20/17</u>		▲ 19/15
FLUID DEGRADA	ATION	method	limit/base	current	history 1	history 2

0.336

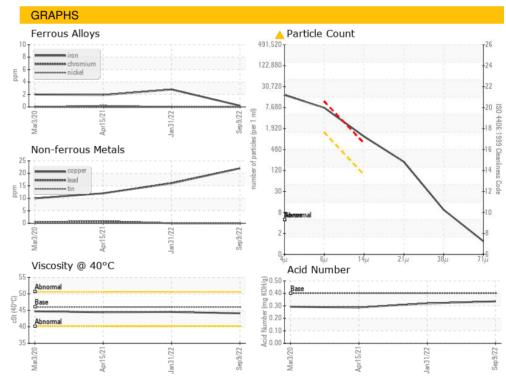
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OIL ANALYSIS REPORT



VISUAL		method	limit/base	current	history 1	history 2
White Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Yellow Metal	scalar	*Visual	NONE	NONE	NONE	NONE
Precipitate	scalar	*Visual	NONE	NONE	NONE	NONE
Silt	scalar	*Visual	NONE	NONE	NONE	NONE
Debris	scalar	*Visual	NONE	NONE	▲ MODER	LIGHT
Sand/Dirt	scalar	*Visual	NONE	NONE	NONE	NONE
Appearance	scalar	*Visual	NORML	NORML	NORML	NORML
Odor	scalar	*Visual	NORML	NORML	NORML	NORML
Emulsified Water	scalar	*Visual	>0.05	NEG	NEG	NEG
Free Water	scalar	*Visual		NEG	NEG	NEG
FLUID PROPERTIES		method	limit/base	current	history 1	history 2
Visc @ 40°C	cSt	ASTM D445	46	44.1	44.5	44.4
SAMPLE IMAGES		method	limit/base	current	history 1	history 2
Color						







Laboratory Sample No. Lab Number Unique Number : 10142883

: WearCheck USA - 501 Madison Ave., Cary, NC 27513 : KCP49390 : 05648344

Bottom

Received : 22 Sep 2022 Diagnosed : 24 Sep 2022 Diagnostician : Doug Bogart

FORNEY, TX

USA 75126 Contact: Service Manager

11821 N PROFIT RD

SMART LASER MANUFACTURING

Test Package : IND 2 (Additional Tests: KF, PrtCount) To discuss this sample report, contact Customer Service at 1-800-237-1369.

* - Denotes test methods that are outside of the ISO 17025 scope of accreditation.

Statements of conformity to specifications are based on the simple acceptance decision rule (JCGM 106:2012)

T:

F: